

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530190

Luminaire Tested: **GALN-SA5B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17571 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

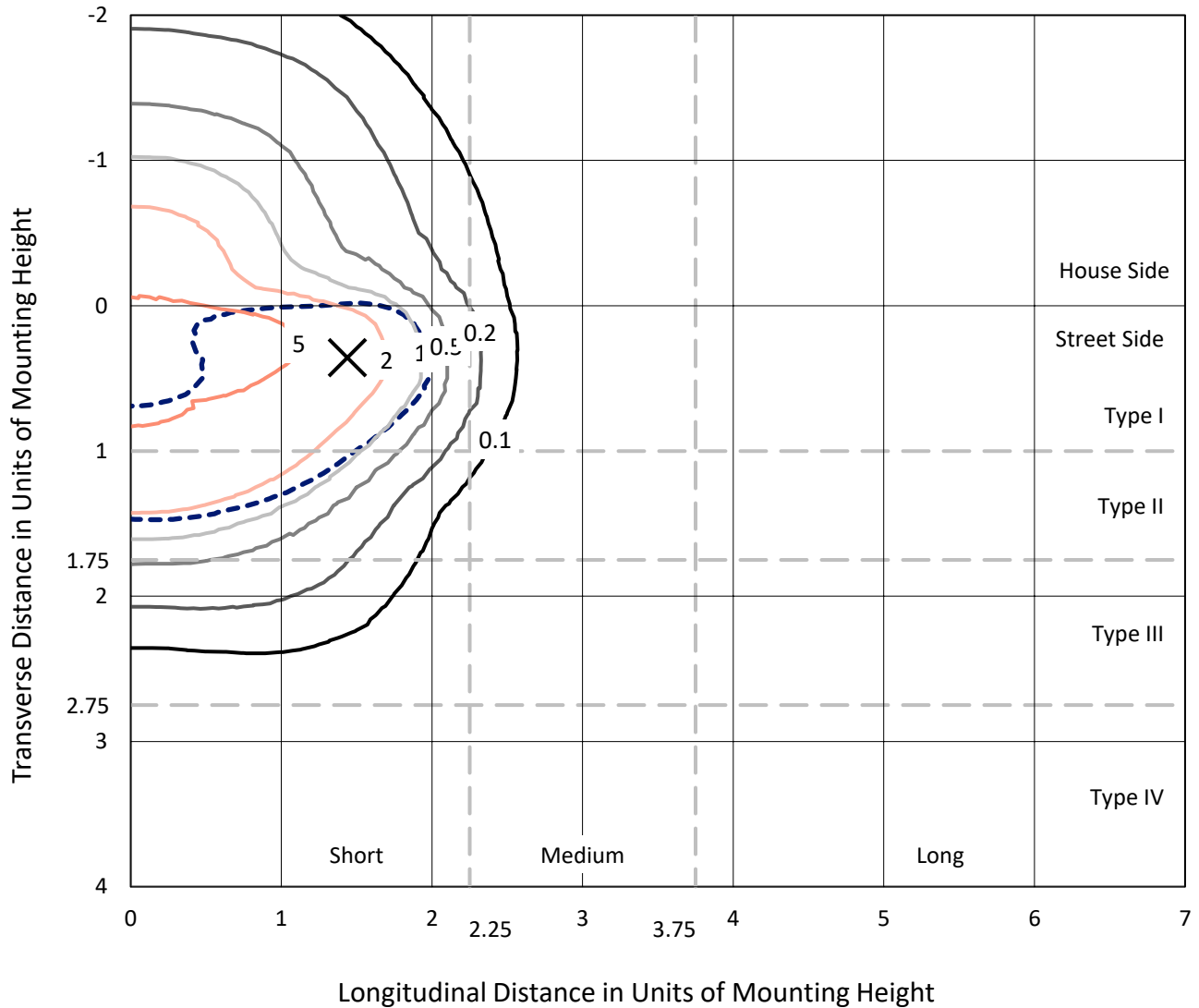
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

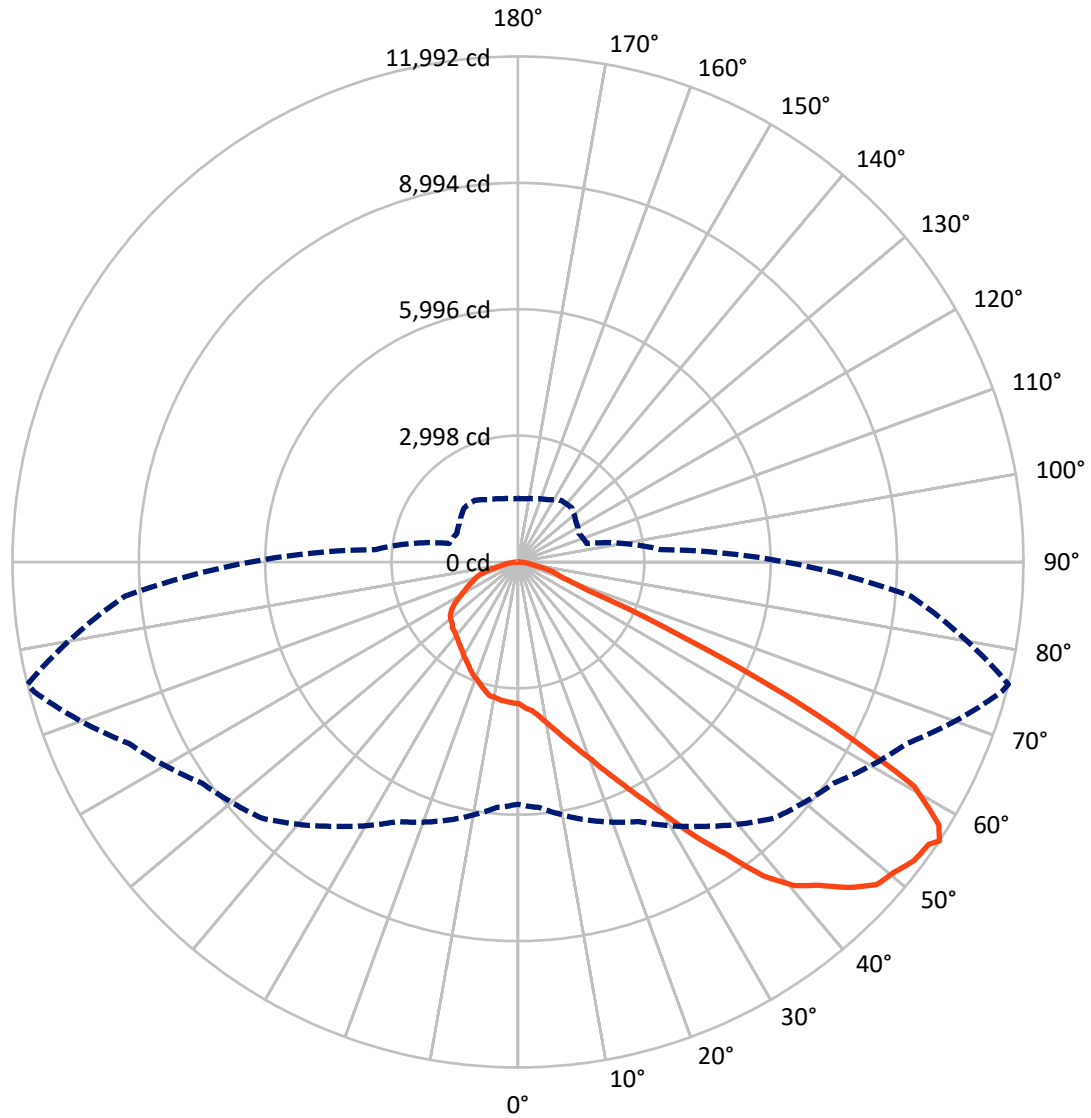
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4724.3	0.0	4724.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12846.7	0.0	12846.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	17571.0	0.0	17571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	1.9
10°-20°	1047.3	6.0
20°-30°	1831.7	10.4
30°-40°	2867.8	16.3
40°-50°	4171.9	23.7
50°-60°	4585.2	26.1
60°-70°	2046.6	11.6
70°-80°	591.1	3.4
80°-90°	95.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17571.0	100.0
0°-180°	17571.0	100.0

Coefficient of Utilization

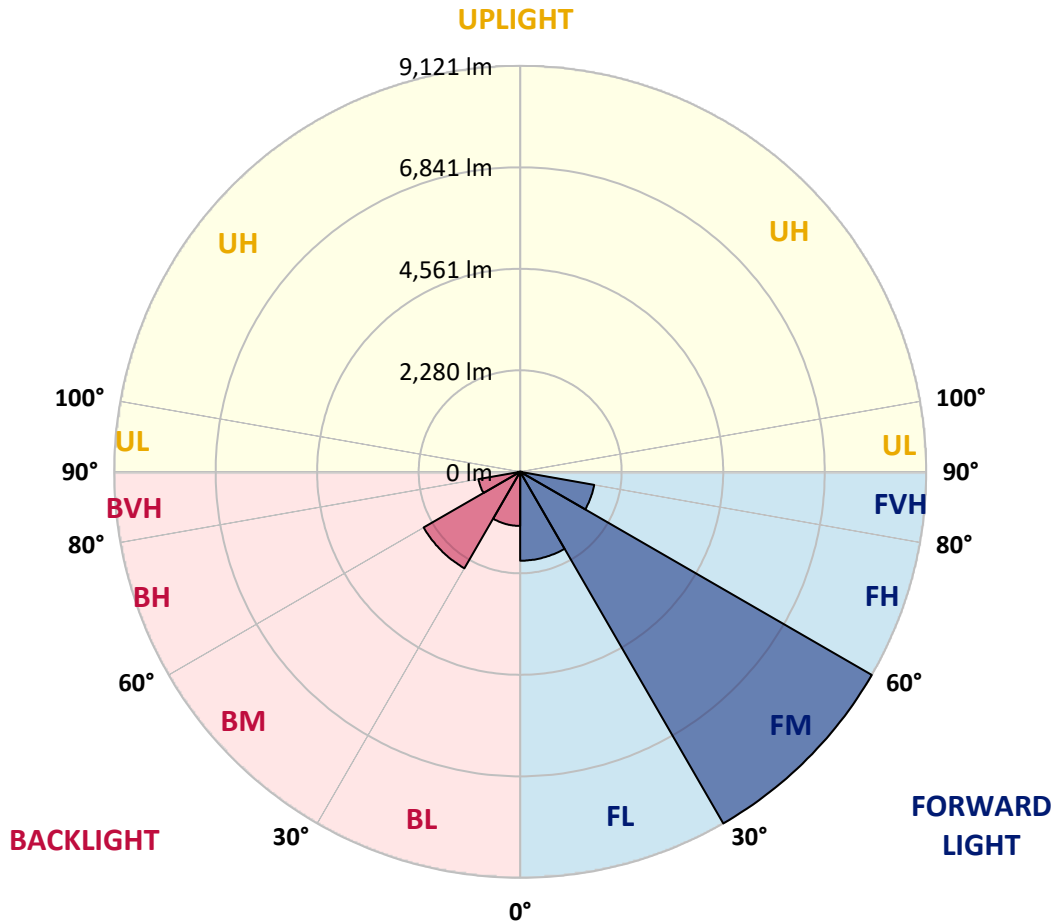


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.7	11.4			
FM (30°-60°)	9121.4	51.9			
FH (60°-80°)	1687.2	9.6			G1/1800
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	1215.7	6.9	B3/2500		
BM (30°-60°)	2503.5	14.2	B3/5000		
BH (60°-80°)	950.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3703.7	3644.4	3639.9	3623.9	3633.0	3592.0	3548.8	3491.8	3432.6	3469.0	3382.5
5°	3963.3	3883.6	3915.5	3860.8	3867.6	3813.0	3724.2	3658.1	3585.2	3541.9	3480.4
7.5°	4054.4	4061.3	4084.0	4074.9	4029.4	4029.4	3970.1	3854.0	3726.4	3701.4	3598.9
10°	4177.4	4179.7	4154.6	4161.5	4225.3	4195.6	4143.3	4093.1	3929.1	3899.5	3717.3
12.5°	4220.7	4179.7	4220.7	4257.1	4332.3	4373.3	4361.9	4325.5	4150.1	4129.6	3863.1
15°	4227.5	4202.5	4236.6	4318.6	4384.7	4557.8	4644.4	4619.3	4387.0	4389.3	4027.1
17.5°	4195.6	4229.8	4243.5	4314.1	4466.7	4628.4	4879.0	4913.1	4721.8	4692.2	4234.4
20°	4238.9	4213.9	4232.1	4295.9	4498.6	4751.4	5079.4	5304.9	5036.1	5015.6	4448.5
22.5°	4405.2	4371.0	4366.5	4407.5	4553.3	4815.2	5291.3	5696.7	5418.8	5430.2	4715.0
25°	4535.0	4553.3	4537.3	4535.0	4626.1	4910.9	5571.4	6163.6	5938.1	5872.1	5029.3
27.5°	4758.3	4801.5	4769.6	4812.9	4792.4	5054.4	5771.9	6680.7	6498.5	6409.6	5314.0
30°	5068.0	5090.8	5061.2	5061.2	4999.7	5254.8	5954.1	7220.5	7145.4	7024.6	5648.9
32.5°	5475.8	5509.9	5450.7	5416.5	5407.4	5553.2	6282.1	7753.5	7881.1	7778.6	6093.0
35°	6015.6	5995.1	5924.5	5892.6	5769.6	6011.0	6769.5	8366.2	8701.1	8518.9	6630.6
37.5°	6491.6	6459.7	6455.2	6277.5	6307.1	6505.3	7184.1	8830.9	9496.0	9443.6	7197.7
40°	6935.8	6965.4	7013.2	6913.0	6867.5	7086.1	7667.0	9186.2	10113.3	10092.8	7635.1
42.5°	7411.9	7384.5	7468.8	7384.5	7316.2	7626.0	8190.9	9432.2	10655.4	10486.8	8092.9
45°	8102.0	8015.5	8045.1	8051.9	8001.8	8115.7	8407.2	9609.9	11035.8	11017.6	8427.7
47.5°	8678.3	8680.6	8630.5	8591.7	8439.1	8553.0	8648.7	9721.5	11473.1	11443.5	8557.6
50°	8892.4	8862.8	9008.6	9092.8	9102.0	8869.6	8837.7	9783.0	11703.2	11573.3	8687.4
52.5°	8122.5	8149.9	8379.9	8881.0	9170.3	9195.3	9058.7	9910.6	11796.6	11769.2	8792.2
55°	6537.2	6669.3	7047.4	7626.0	8311.6	9065.5	9297.8	10042.7	11846.7	11823.9	9256.8
56°	5746.8	5849.3	6341.3	6794.6	7655.6	8594.0	9147.5	10183.9	11885.4	11992.4	9366.2
57.5°	4626.1	4744.6	5097.6	5612.4	6628.3	7696.6	8733.0	10010.8	11735.1	11776.1	9445.9
60°	2892.8	2904.2	3327.8	3667.2	4382.4	5425.6	6664.7	8710.2	10860.4	10801.2	8484.7
62.5°	1897.4	1899.7	2284.6	2562.5	2888.2	3127.4	3922.3	5776.4	8013.2	7908.4	6040.6
65°	1332.5	1362.1	1660.5	2031.8	2163.9	2038.6	2013.5	3045.4	4475.8	4325.5	3245.8
67.5°	974.9	977.2	1241.4	1640.0	1831.3	1551.2	1259.6	1487.4	1772.1	1767.5	1503.3
70°	644.6	671.9	874.7	1225.4	1444.1	1454.9	1029.6	1063.7	1127.5	1127.5	1118.4
72.5°	375.8	400.9	535.3	776.7	810.9	779.0	815.4	911.1	952.1	949.8	938.4
75°	214.1	225.5	255.1	323.4	403.2	476.1	599.1	690.2	731.2	756.2	726.6
77.5°	125.3	132.1	150.3	184.5	209.6	257.4	325.7	389.5	444.2	437.3	441.9
80°	66.1	66.1	84.3	109.3	145.8	182.2	216.4	252.8	282.4	289.3	296.1
82.5°	38.7	41.0	54.7	79.7	104.8	129.8	166.3	191.3	218.7	220.9	225.5
85°	20.5	22.8	34.2	52.4	70.6	79.7	82.0	77.4	84.3	79.7	91.1
87.5°	6.8	6.8	11.4	9.1	9.1	11.4	13.7	13.7	18.2	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3380.2	3380.2	3341.5	3268.6	3257.2	3227.6	3200.3	3198.0	3177.5	3159.3	3150.2
5°	3444.0	3373.4	3316.4	3250.4	3172.9	3136.5	3095.5	3049.9	3031.7	3049.9	3047.7
7.5°	3516.9	3457.7	3286.8	3163.8	3075.0	3038.5	2993.0	2945.2	2949.7	2949.7	2917.8
10°	3587.5	3507.8	3234.4	3077.3	2947.4	2920.1	2895.0	2913.3	2936.0	2940.6	2920.1
12.5°	3705.9	3526.0	3209.4	2990.7	2908.7	2849.5	2865.4	2915.5	2963.4	2949.7	2965.7
15°	3794.8	3541.9	3095.5	2901.9	2799.4	2826.7	2883.7	2917.8	2997.5	2988.4	3004.4
17.5°	3881.3	3551.0	2983.9	2783.4	2740.2	2815.3	2858.6	2956.5	2981.6	3036.3	3056.8
20°	4059.0	3569.3	2870.0	2710.5	2696.9	2783.4	2858.6	2904.2	2958.8	3006.7	3006.7
22.5°	4150.1	3560.2	2794.8	2614.9	2658.2	2712.8	2781.2	2858.6	2858.6	2904.2	2906.4
25°	4264.0	3523.7	2676.4	2569.3	2601.2	2653.6	2731.0	2703.7	2733.3	2733.3	2769.8
27.5°	4393.8	3446.3	2573.9	2487.3	2551.1	2608.0	2619.4	2601.2	2567.0	2562.5	2548.8
30°	4498.6	3350.6	2498.7	2460.0	2512.4	2544.3	2507.8	2469.1	2409.9	2405.3	2373.4
32.5°	4642.1	3232.2	2405.3	2391.7	2450.9	2453.2	2441.8	2382.5	2296.0	2259.5	2223.1
35°	4883.5	3163.8	2334.7	2355.2	2373.4	2366.6	2346.1	2282.3	2195.8	2179.8	2166.2
37.5°	5061.2	3113.7	2261.8	2286.9	2302.8	2311.9	2250.4	2179.8	2182.1	2150.2	2141.1
40°	5261.6	3081.8	2202.6	2214.0	2216.3	2245.9	2170.7	2136.5	2152.5	2132.0	2145.7
42.5°	5519.0	3090.9	2141.1	2132.0	2175.3	2163.9	2127.4	2081.9	2091.0	2029.5	2038.6
45°	5655.7	3152.4	2104.7	2063.7	2111.5	2109.2	2061.4	2018.1	1963.4	1845.0	1849.5
47.5°	5746.8	3168.4	2018.1	1990.8	2040.9	2070.5	2015.8	1915.6	1838.2	1753.9	1733.4
50°	5840.2	3198.0	1977.1	1920.2	1940.7	2011.3	1942.9	1847.3	1772.1	1696.9	1708.3
52.5°	5922.2	3254.9	1897.4	1813.1	1849.5	1927.0	1890.5	1774.4	1692.4	1630.9	1612.7
55°	6286.6	3382.5	1763.0	1653.7	1740.2	1838.2	1817.7	1676.4	1587.6	1555.7	1551.2
56°	6343.6	3387.0	1692.4	1599.0	1678.7	1808.5	1783.5	1633.2	1553.4	1503.3	1505.6
57.5°	6352.7	3332.4	1592.2	1548.9	1617.2	1765.3	1733.4	1599.0	1489.7	1444.1	1430.4
60°	5589.6	2601.2	1466.9	1439.5	1519.3	1633.2	1621.8	1505.6	1382.6	1330.2	1355.3
62.5°	3810.7	1906.5	1368.9	1364.4	1405.4	1517.0	1487.4	1382.6	1280.1	1245.9	1230.0
65°	2218.5	1446.4	1273.3	1255.1	1289.2	1348.4	1368.9	1259.6	1152.6	1129.8	1122.9
67.5°	1309.7	1195.8	1150.3	1120.7	1109.3	1145.7	1161.7	1097.9	990.8	958.9	986.3
70°	1095.6	1063.7	1066.0	1015.9	988.6	963.5	949.8	892.9	804.1	763.1	751.7
72.5°	945.3	931.6	922.5	876.9	851.9	794.9	735.7	678.8	612.7	578.6	580.8
75°	722.1	717.5	722.1	699.3	656.0	610.4	555.8	482.9	432.8	389.5	398.6
77.5°	430.5	444.2	451.0	441.9	423.7	382.7	348.5	300.7	252.8	218.7	214.1
80°	296.1	307.5	318.9	307.5	289.3	259.7	223.2	186.8	152.6	134.4	129.8
82.5°	225.5	236.9	243.7	232.3	209.6	177.7	152.6	127.6	100.2	82.0	77.4
85°	82.0	93.4	91.1	109.3	118.4	113.9	97.9	75.2	56.9	41.0	38.7
87.5°	22.8	20.5	22.8	22.8	22.8	20.5	18.2	18.2	18.2	11.4	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)